Drew Lewis, Ph.D.

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About me

Mathematician, education researcher, and faculty developer currently working as an independent consultant after 15 years' experience in academia.

Education

Ph.D. in Mathematics — 2012
Washington University in St. Louis

A.M. in Mathematics — 2008
Washington University in St. Louis

B.S in Mathematics — 2006
University of Alabama

Awards

Best Paper Award — 2020
Team-Based Learning Collaborative

Best Poster Award — 2019
Team-Based Learning Collaborative

TeamUSA QEP Educator of Distinction — 2018
University of South Alabama

Most Engaged New Faculty Member — 2017
University of South Alabama

Robert McDowell Teaching Award — 2011
Washington University

B. B. Comer Mathematics Prize — 2006
University of Alabama

Certifications

Team-Based Learning Trainer-Consultant — 2019
Team-Based Learning Collaborative

Master Beer Judge — 2016
Beer Judge Certification Program

Skills

Statistical Analysis	Survey Design	Project Management
Data Science	Quantitative Research	Mentoring
Scientific Communication	Qualitative Research	Pedagogy
Programming*	Grant Writing	Curricular Development

*Languages: Bash, C/C++, LaTeX, Perl, Python, R

Experience

2022–	Independent Consultant	
2020–2022	Associate Professor of Mathematics	University of South Alabama
2016–2020	Assistant Professor of Mathematics	University of South Alabama
2012–2016	Assistant Professor of Mathematics	University of Alabama
2007–2012	Graduate Teaching Assistant	Washington Unversity in St. Louis

Accomplishments

- Secured and oversaw management of $500K+ in external funding for research and faculty professional development
- Authored 25 scientific publications and led research collaborations in pure mathematics and education research
- Gave 20+ scientific presentations at local, national, and international conferences and universities
- Facilitated 20+ professional development workshops focused on improving instructors' pedagogy at various universities and conferences
- Led curricular redesign and pedagogical improvement efforts that improved student success rates by 15%
- Developed open source educational resources used by faculty across the country, impacting thousands of students
- Contributed source code to open source educational tools
- Supervised Master's program, including admissions, curricular issues, and teaching assistants
- Supervised independent student research at undergraduate and doctoral levels
- Served on numerous college and university committees responsible for curricular and policy decision making
- Organized scientific meetings, conferences, and research programs

Selected Publications

D. Lewis. Impacts of standards-based grading on students' mindset and test anxiety. *Journal of Scholarship of Teaching and Learning*, 22(2):67–77, 2022.

S. Clontz, D. Lewis, J. Bolkema, J. Ford, S. Krinsky, J. Nordstrom, and K. Owens. *Linear Algebra for Team-Based Inquiry Learning*, 2022. Open Educational Resource. https://teambasedinquirylearning.github.io/linear-algebra/2022/

D. Lewis and J. Estis. Improving mathematics content mastery and enhancing flexible problem solving through team-based inquiry learning. *Teaching & Learning Inquiry*, 8(2):165–183, 2020.

D. Lewis. Student anxiety in standards-based grading in mathematics courses. *Innovative Higher Education*, 45(2):153–164, 2020.

D. Lewis. Vénéreau-type polynomials as potential counterexamples. *Journal of Pure and Applied Algebra*, 217(5):946–957, 2013.